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(54) Title: AN EQUINE FEED PRODUCT

(57) Abstract: An equine oat-balancing feed supplement comprising a mix of substances including lysine, iodine, copper, magnesium, zinc and calcium is provided. The supplement further includes one or more of Folic Acid, Nicotinic Acid, Pantothenic Acid, Thiamine, Riboflavin, Pyridoxine, Biotin, Cobalt, Selenium, Methionine, Threonine, Choline, Iron, Manganese, an inert material such as cereal wheat and Vitamins A, B₁₂, D, C, E, K. The oat-balancing feed supplement is administered to horses in an amount dependent on the age of the animal, together with an oat-based diet. The health and condition of horses has been found to improve an commencement of the intake of the supplement and in particular, racing horses have been observed to have improved performance at races when on the supplement.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A23K1/18 A23K1/16 A23K1/175

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 A23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 338 856 B1 (ALLEN VIVIEN GORE ET AL) 15 January 2002 (2002-01-15) column 5, line 55 -column 6, line 35 example 7 ---	1-15
X	US 5 536 509 A (PROTTI CARLOS R) 16 July 1996 (1996-07-16) column 1, paragraph 2 column 4, line 27-46 column 5, line 1-60 ---	1-15
X	US 5 236 717 A (VINCI ALFREDO) 17 August 1993 (1993-08-17) column 4, line 28-55 column 5, line 60-66 ---	1-15 -/-

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Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Applicant
PCT/IE U3/00008

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GRAHAM, P. M., OTT, E. A., BRENDEMULH, J. H., AND TENBROEK, S. H.: "The effect of supplemental Lysine and Threonine on growth and development of yearling horses" JOURNAL OF ANIMAL SCIENCE, vol. 72, 1994, pages 380-386, XP002242767 NEW YORK, NY, US ISSN: 0021-8812 page 385, column 2, paragraph 2; table 1 ---	1-15
X	OTT, E. A., ASQUITH, R. L., FEASTER, J. P., AND MARTIN, F. G.: "influence of the protein level and quality on the rowth and development of yearling foals" JOURNAL OF ANIMAL SCIENCE, vol. 49, no. 3, 1979, pages 620-628, XP008017818 NEW YORK, NY, US ISSN: 0021-8812 page 627, column 2, paragraph 2; table 1 ---	1-15
A	WO 01 74173 A (HARRIS PATRICIA ANN ;MARS UK LTD (GB); HARRIS ROGER CHARLES (GB)) 11 October 2001 (2001-10-11) page 11, paragraph 2 -page 12, paragraph 1 ---	1-15
A	DE 196 17 185 A (MUEHLE EBERT DIELHEIM GMBH) 30 October 1997 (1997-10-30) column 2, line 31 -column 3, line 49 example 1 -----	1-15

INTERNATIONAL SEARCH REPORT
Info on patent family members

International application No	PCT/IE 03/00008
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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6338856	B1	15-01-2002		US 6342242 B1 AU 6049400 A EP 1286680 A1 WO 0145724 A1 US 2002142024 A1 US 2003003134 A1 US 6312709 B1 US 6391331 B1 US 2002022049 A1 US 6383538 B1		29-01-2002 03-07-2001 05-03-2003 28-06-2001 03-10-2002 02-01-2003 06-11-2001 21-05-2002 21-02-2002 07-05-2002
US 5536509	A	16-07-1996		CA 2224584 A1 WO 9700017 A1 CA 2224568 A1 EP 0832466 A1 WO 9642065 A1 US 5519794 A BR 9510613 A		27-12-1996 03-01-1997 03-01-1997 01-04-1998 27-12-1996 21-05-1996 30-11-1999
US 5236717	A	17-08-1993		AU 3476093 A WO 9318666 A1		21-10-1993 30-09-1993
WO 0174173	A	11-10-2001		AU 4440301 A EP 1267635 A1 WO 0174173 A1 GB 2377381 A		15-10-2001 02-01-2003 11-10-2001 15-01-2003
DE 19617185	A	30-10-1997	DE	19617185 A1		30-10-1997